

SYSTEM, METHOD, AND APPARATUS FOR ESTABLISHING HEADROOM FOR A MOBILE STATION

ABSTRACT OF THE DISCLOSURE

1 A system, method, and apparatus for establishing headroom for a mobile
2 station operating in a wireless communication system by determining (230) a
3 communication channel variance condition and establishing (245) a headroom
4 value based on the communication channel variance condition. The headroom
5 value may be further revised by determining (260) if a battery condition in a
6 mobile station relates to a low battery level and increasing (265) the headroom
7 value in order to decrease the maximum data rate. Modifications to headroom
8 allow data rates to be tailored to specific channel variance conditions and battery
9 conditions.